IN THE CLAIMS:

The claims are as follows:

- (Original) A method of processing messages, comprising:
 receiving, at a sockets layer of a computer, data from a remote source via a
 network connection prior to allocating a buffer to contain the data; and subsequently
 allocating the buffer to contain the data.
- 2. (Original) The method of claim 1, wherein the messages are client-server messages.
- 3. (Original) The method of claim 1, wherein the data is received over a sockets streaming protocol.
- 4. (Original) The method of claim 1, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 5. (Original) The method of claim 1, wherein the allocating is performed in response to a buffer request from the sockets layer.
- 6. (Original) The method of claim 1, wherein the network connection is a Transfer Control Protocol/Internet Protocol (TCP/IP) connection.
- 7. (Original) The method of claim 1, wherein allocating the buffer comprises: processing a buffer request from a sockets layer after receiving the data; and providing the buffer to the sockets layer.
- 8. (Original) The method of claim 7, wherein the buffer request specifies a size of the buffer equal to a size of the data.

9. (Original) A computer readable medium containing a program which, when executed by a computer, performs operations for processing messages, the operations comprising:

processing an input operation issued from a sockets server application to a sockets layer of the computer, wherein the input operation is configured with a buffer mode parameter indicating to the sockets layer a buffer acquisition method for acquiring a buffer for containing data received from a remote source via a network connection.

- 10. (Original) The computer readable medium of claim 9, wherein the messages are client-server messages.
- 11. (Original) The computer readable medium of claim 9, wherein the data is received over a sockets streaming protocol.
- 12. (Original) The computer readable medium of claim 9, wherein the input operation is further configured with a record definition specifying to the sockets layer a format of the data.
- 13. (Original) The computer readable medium of claim 9, further comprising: receiving the data from the remote source via the network connection; and subsequently
- 14. (Original) The computer readable medium of claim 10, wherein the allocation is performed by one of the sockets server application and the sockets layer.
- 15. (Original) The computer readable medium of claim 10, wherein the buffer is allocated from one of:
 - storage owned by the sockets server application; and system-supplied storage not owned by the sockets server application.

allocating the buffer.

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- 16. (Original) The computer readable medium of claim 10, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 17. (Original) The computer readable medium of claim 10, wherein allocating the buffer comprises calling back to the sockets server application with an instruction to allocate the buffer.
- 18. (Original) The computer readable medium of claim 10, wherein the allocating is performed in response to a buffer request made by the sockets layer.
- 19. (Original) The computer readable medium of claim 9, further comprising: receiving the data from the remote source via the network connection; and if the buffer is large enough to contain the data, copying the data into a previously allocated buffer provided to the sockets layer with the input operation; and if the previously allocated buffer is not large enough to contain the data, requesting a larger buffer sufficient to contain the data in accordance with the buffer acquisition method.
- 20. (Original) A system in a distributed environment, comprising: a network interface configured to support a network connection with at least one other computer in the distributed environment;
- a memory comprising a sockets server application, a socket in communication with the sockets server application and a protocol stack in communication with the socket, wherein the protocol stack is configured to transport messages between the network interface and the socket;
- a processor configured to perform operations for processing messages, the operations comprising:
 - processing an input operation issued from the sockets server application to the socket, wherein the input operation is configured with a buffer mode parameter indicating to the socket a buffer acquisition method for acquiring a buffer for containing data received from the at least one other computer.

- 21. (Original) The system of claim 20, wherein the messages are client-server messages.
- 22. (Original) The system of claim 20, wherein the protocol stack is configured for a sockets streaming protocol.
- 23. (Original) The system of claim 20, wherein the memory comprises record definition specifying to the socket a format of the data.
- 24. (Original) The system of claim 20, wherein the operations further comprise: receiving the data; and subsequently allocating the buffer.
- 25. (Original) The system of claim 24, wherein the allocation is performed by one of the sockets server application and the socket.
- 26. (Original) The system of claim 24, further comprising application-supplied storage owned by the sockets server application and system-supplied storage not owned by the sockets server application and wherein allocating the buffer comprises one of:

allocating the buffer from application-supplied storage; and allocating the buffer from system-supplied storage.

- 27. (Original) The system of claim 24, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 28. (Original) The system of claim 24, wherein allocating the buffer comprises calling back to the sockets server application with an instruction to allocate the buffer.

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29. (Original) The system of claim 24, wherein the allocating is performed in response to a buffer request made by the socket.